

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Cancelled)

2. (Currently amended) The electron tube of claim [[1]] 11, wherein the first and the second auxiliary linear member are fixed to the fixing members by embedding therein at least parts of the end portions thereof therein.

3. (Currently amended) The electron tube of claim [[1]] 11, further comprising a number of metal layers formed at the substrate, and

wherein the fixing members are fixedly attached to the metal layers by an ultrasonic bonding method, and the end portions of the first and the second auxiliary linear member are fixedly attached to the fixing members by the ultrasonic bonding method.

4. (Currently amended) The electron tube of claim [[1]] 11, wherein the first and the second auxiliary linear member are arranged in a direction intersecting the primary linear member, and

wherein the fixing members include spacer pads determining the heights of the auxiliary linear members, the spacer pads being fixed to the substrate via metal layers formed thereat, and one end portion of the first auxiliary linear member and

one end portion of the second auxiliary linear member are fixed to one spacer pad.

5. (Currently amended) The electron tube of claim 4, wherein said one end portion of the first auxiliary linear member and said one end portion of the second auxiliary linear member are fixed at different locations of said one spacer pad.

6. (Currently amended) The electron tube of claim 4, wherein the other end portions of the first and the second auxiliary linear member are fixed to [[a same]] another spacer pad to face each other.

7. (Currently amended) The electron tube of claim [[1]] 11, wherein the first and the second auxiliary linear member are arranged in a direction intersecting the primary linear member, and

wherein the fixing members include spacer pads determining the heights of the auxiliary linear members, the spacer pads being fixed to the substrate via metal layers formed thereat, and the end portions of the auxiliary linear members are fixed to different spacer pads, respectively.

8. (Currently amended) The electron tube of claim 7, An electron tube comprising:
a vessel;
a primary linear member installed in the vessel;
an electrode disposed in the vessel;
a first auxiliary linear member and a second auxiliary linear member disposed
at different heights to interpose the primary linear member therebetween; and
a plurality of fixing members, formed at a single substrate constituting a part
of the vessel, for fixing end portions of the first auxiliary and the second auxiliary

linear member thereto,

wherein the first and the second auxiliary linear member are arranged in a direction intersecting the primary linear member,

wherein the fixing members include spacer pads determining the heights of the auxiliary linear members, the spacer pads being fixed to the substrate via metal layers formed thereat, and the end portions of the auxiliary linear members are fixed to different spacer pads, respectively, and

the electron tube further comprising at least one additional first auxiliary linear member and at least one additional second auxiliary linear member, and

wherein the first auxiliary linear members of a first height and the second auxiliary linear members of a second height are alternately disposed along a length direction of the primary linear member.

9. (Currently amended) The electron tube of claim [[1]] 11, further comprising a metal layer formed at the substrate, and

wherein the first and the second auxiliary linear member are arranged in a direction intersecting the primary linear member, and

wherein a fixing member for fixing one end portion of the first auxiliary linear member serves as a spacer member of the second auxiliary linear member for determining a height thereof, said fixing member being fixed to the metal layer.

10. (Currently amended) The electron tube of claim 9, wherein said [[one]] fixing member and a fixing member for fixing one end portion of the second auxiliary linear member are fixed to the metal layer.

11. (New) An electron tube comprising:

a vessel;
a primary linear member installed in the vessel;
an electrode disposed in the vessel;
a first auxiliary linear member and a second auxiliary linear member disposed at different heights to interpose the primary linear member therebetween; and
a plurality of fixing members, formed at a single substrate constituting a part of the vessel, for fixing end portions of the first auxiliary and the second auxiliary linear member thereto,
wherein two end portions of each auxiliary linear member are fixed to two different fixing members, respectively.

12. (New) The electron tube of claim 11, wherein the primary linear member and the auxiliary linear members are disposed parallel to the single substrate.

13. (New) The electron tube of claim 11, further comprising:

a plurality of fixing members, formed at the single substrate, for fixing end portions of the primary linear member thereto.

14. (New) An electron tube comprising:

a vessel;
a primary linear member installed in the vessel;
an electrode disposed in the vessel;
a first auxiliary linear member and a second auxiliary linear member disposed at different heights to interpose the primary linear member therebetween; and
a plurality of fixing members, formed at a single substrate constituting a part of the vessel, for fixing end portions of the first auxiliary and the second auxiliary

linear member thereto,

wherein the primary linear member and the auxiliary linear members are disposed parallel to the single substrate.

15. (New) The electron tube of claim 14, wherein the first and the second auxiliary linear member are fixed to the fixing members by embedding therein at least parts of the end portions thereof.

16. (New) The electron tube of claim 14, further comprising a number of metal layers formed at the substrate, and

wherein the fixing members are fixedly attached to the metal layers by an ultrasonic bonding method, and the end portions of the first and the second auxiliary linear member are fixedly attached to the fixing members by the ultrasonic bonding method.

17. (New) The electron tube of claim 14, wherein the first and the second auxiliary linear member are arranged in a direction intersecting the primary linear member, and

wherein the fixing members include spacer pads determining the heights of the auxiliary linear members, the spacer pads being fixed to the substrate via metal layers formed thereat, and one end portion of the first auxiliary linear member and one end portion of the second auxiliary linear member are fixed to one spacer pad.

18. (New) The electron tube of claim 17, wherein said one end portion of the first auxiliary linear member and said one end portion of the second auxiliary linear member are fixed at different locations of said one spacer pad.

19. (New) The electron tube of claim 17, wherein the other end portions of the first and the second auxiliary linear member are fixed to another spacer pad to face each other.

20. (New) The electron tube of claim 14, wherein the first and the second auxiliary linear member are arranged in a direction intersecting the primary linear member, and

wherein the fixing members include spacer pads determining the heights of the auxiliary linear members, the spacer pads being fixed to the substrate via metal layers formed thereat, and the end portions of the auxiliary linear members are fixed to different spacer pads, respectively.

21. (New) The electron tube of claim 14, further comprising a metal layer formed at the substrate, and

wherein the first and the second auxiliary linear member are arranged in a direction intersecting the primary linear member, and

wherein a fixing member for fixing one end portion of the first auxiliary linear member serves as a spacer member of the second auxiliary linear member for determining a height thereof, said fixing member being fixed to the metal layer.

22. (New) The electron tube of claim 21, wherein said fixing member and a fixing member for fixing one end portion of the second auxiliary linear member are fixed to the metal layer.

23. (New) The electron tube of claim 14, further comprising:

a plurality of fixing members, formed at the single substrate, for fixing end portions of the primary linear member thereto.

24. (New) The electron tube of claim 8, wherein two end portions of each auxiliary linear member are fixed to two different fixing members, respectively.

25. (New) The electron tube of claim 8, wherein the primary linear member and the auxiliary linear members are disposed parallel to the single substrate.

26. (New) The electron tube of claim 8, further comprising:

a plurality of fixing members, formed at the single substrate, for fixing end portions of the primary linear member thereto.